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A schematic diagram of a fluid control system. On the left, a rectangular component 10 contains a valve assembly 12. Below it is a smaller component 14 with an outlet 16 leading to a flow 38. A horizontal line 20 connects component 10 to a vertical rectangular tank 22. Above this line is a valve 18 with an outlet 38. At the bottom of tank 22 is a valve assembly 24. A line 28 exits the right side of tank 22, passing through a valve 26. Above this line is a valve 40 with an outlet 38. The line continues to a circular component 30, which has a shaded wedge-shaped section. Above this line is a valve assembly 32 with an outlet 38. A line 34 connects the circular component 30 to an outlet 36. A separate rectangular box at the bottom right is labeled 38.

(57) Abstract: A method of controlling the pressure within a chamber (12) of a drying apparatus (10) from which air and vapour is removed by a pump (30), which is operated continuously during the drying process. If both of a vent valve (18) and a pressure control valve (32) is opened, air at atmospheric pressure is drawn by the pump (30) directly from the pressure control valve (32), and via the chamber (12) and a non-return valve (26) from the vent valve (18). When the pressure in the chamber (12) is to be reduced both vent and pressure control valves (18, 32) are closed to allow the pump (30) to remove air, gas and vapour from the chamber (12) via the non-return valve (26). After a required chamber pressure has been reached, the pressure control valve (32) is opened while the vent valve (18) remains closed